

$$\omega M(j) := 2 \cdot \pi \cdot f M(j)$$

Guess Values

$$\epsilon'_M(j) := 3$$

$$\epsilon''_M(j) := 10^{-3}$$

$$C_{lfit}(j) := 4 \text{ pF}$$

Constraints

$$\omega M(j) \cdot \text{Re}(Z_{21} M'(j)) = \frac{C_0 \cdot \epsilon''_M(j)}{(C_0 \cdot \epsilon'_M(j) + C_{lfit}(j))^2 + (C_0 \cdot \epsilon''_M(j))^2}$$

$$\omega M(j) \cdot \text{Im}(Z_{21} M'(j)) = \frac{-(C_0 \cdot \epsilon'_M(j) + C_{lfit}(j))}{(C_0 \cdot \epsilon'_M(j) + C_{lfit}(j))^2 + (C_0 \cdot \epsilon''_M(j))^2}$$

$$\phi_{21} M'(j) = \omega M(j) \cdot \frac{d_M}{c} \cdot (\sqrt{\epsilon'_M(j)} - 1)$$

Solver

$$vec(j) := \text{Find}(\epsilon'_M(j), \epsilon''_M(j), C_{lfit}(j))$$

$$vec(j) = ?$$